

VIDENSKIY, V.S.

Remarks on V.A. Markov's theorem on two polynomials the zeros
of which alternate. Izv. AN Arm. SSR. Ser. fiz.-mat. nauk 15 no. 2;
15-24 '62. (MIRA 15:4)

1. Matematicheskiy institut imeni V.A. Steklova AN SSSR.
(Polynomials)

VIDENSKIY, V.S.

Some evaluations for derivatives of rational fractions. Izv.
AN SSSR. Ser. mat. 26 no.3:415-426 My-Je '62. (MIRA 15:6)

1. Matematicheskiy institut imeni V.A.Steklova AN SSSR.
(Polynomials)

MANDELBROJT, S.; VIDENSKIY, V.S., [translator] GONCHAROV, V.L., redaktor;
SHABAT, B.V., redaktor; IL'IN, B.M., tekhnicheskiy redaktor.

[Adherent series. Regularization of sequences. Applications.
Translated from the French] Primeneniya riadov. Reguliari-
zatsiya posledovatel'nostei. Primenenija. Perevod s frantsuz-
skogo V.S. Videnskogo. Pod red. V.L. Goncharova. Moskva, Izd-vo
inostrannoi lit-ry, 1955. 267 p. (MLRA 8:11)
(Series) (Functions)

MARKUSHEVICH, A.I.; VIDENSKIY, V.S., red.; KHAVINSON, S.Ya., red.;
MURASHOVA, N.Ya., tekhn. red.

[Studies on present-day problems in the theory of functions of
complex variables (collected articles)]Issledovaniia po sovremen-
nym problemam teorii funktsii kompleksnogo peremennogo (sbornik
statei); doklady. Pod red. A.I.Markushevicha. Moskva, Gos.izd-vo
fiziko-matem.lit-ry, 1960. 544 p. (MIRA 15:1)

1. Vsesoyuznaya konferentsiya po teorii funktsii kompleksnogo
peremennogo, 4th, Moscow, 1958.
(Functions of complex variables)

VIDENSKIY, V.S.

Sergei Natanovich Bernshtein--author of the constructive theory
of functions. Usp. mat. nauk 16 no.2:21-24 Mr-Ap '61.
(MIRA 14:5)

(Functional analysis)

VIDENSKIY, V. S., Doc Phys-Math Sci, "WEIGHTED APPROXIMATIONS AND POLYNOMIALS WITH MINIMUM DEVIATIONS FROM ZERO." LENINGRAD, 1961. (LENINGRAD ORDER OF LENIN STATE UNIV IM A. A. ZHDANOV). (KL, 3-61, 201).

S/022/61/014/001/001/010
B112/B202

16.3000

AUTHOR: Videnskiy, V. S.

TITLE: Second remark on polynomials deviating minimally from zero whose coefficients satisfy a given linear function

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR. Seriya fiziko-matematicheskikh nauk, v. 14, no. 1, 1961, 3-7

TEXT: The author studies a class of polynomials $P_n(z) = \sum_{k=0}^n a_k z^k$ (1)

with complex coefficients a_k satisfying the condition:

$$L[P_n] = \sum_{k=0}^n m_k a_k = 1$$

with given complex numbers m_k . If, in class (1) a polynomial M_n minimally deviates from zero on a compact domain K of the z -plane, it deviates, according to a theorem by L. G. Shnirel'man, already on a subset of K consisting of $2n+1$ points z_s at the maximum. In the first paper, the

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Second remark on polynomials ...

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author called such a system $\{z_s\}$ characteristic if a polynomial of class (1) exists for each subsystem of $\{z_s\}$ whose deviation from zero on this subsystem is smaller than on the entire system $\{z_s\}$. In that paper the author derived a criterion for the case that in class (1) a polynomial M_n on a characteristic system $\{z_s\}$ minimally deviates from zero. The result obtained was the extension of theorems which had been established by V. A. Markov and Ye. V. Voronovskaya for the real domain, to the complex domain. In the present paper the former criterion is given a new form by means of the result obtained by A. N. Kolmogorov which is extended to the complex domain. To obtain a minimum deviation from zero of the polynomial M_n of class (1) on the characteristic set of points $\{z_s\}$ the following relation is necessary and sufficient: $M_n(z_s) = re^{-it_s}$, $r > 0$ as well as the existence of a sequence of positive, real numbers d_s , which satisfy the orthogonality relations $\sum_s d_s e^{it_s} G_n(z_s) = 0$ for

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a polynomial G_n with $L[G_n] = 0$. There are 5 Soviet-bloc references.

ASSOCIATION: Matematicheskiy institut im. V. A. Steklova Akademii nauk
SSSR
(Mathematics Institute imeni V. A. Steklov Academy of Sciences USSR)

SUBMITTED: October 31, 1960

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-135 I BOV EDITION

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	Volume 1. Part 1. Differential Calculus. Series, Functions of Several Variables, Partial Derivatives, Extremal Problems, Multiple Integrals, Line Integrals, Improper Integrals, Applications of Integration to Geometry and Physics.	25
	Volume 1. Part 2. Integral Calculus. Functions of One Variable, Definite Integrals, Improper Integrals, Multiple Integrals, Line Integrals, Improper Integrals, Applications of Integration to Geometry and Physics.	26
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	In two parts.	
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Zhdanovich, A. I. (Bogolyubov, N. N., editor).	Elements of Mathematics. Calculus. Differential and Integral Calculus. Voronezh: University Press, 1950.	30
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Zhdanovich, A. I. (Bogolyubov, N. N., editor).	Elements of Mathematics. Calculus. Differential and Integral Calculus. Voronezh: University Press, 1950.	33
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Al'ter, S. D. (Author-Director).	On the Mean Approximation of Analytic Functions of Class L_p .	373

TIMAN, Aleksandr Filippovich; VIDENSKIY, V.S., red.; KRYUCHKOVA, V.N.,
tekhn.red.

[Approximation theory of functions of real variables] Teoriia
priblizheniya funktsii deistvitel'nogo peremennogo. Moskva, Gos.
izd-vo fiziko-matem. lit-ry, 1960. 624 p. (MIRA 13:7)
(Functions of real variables)

16(1) 11.4200

AUTHOR: Videnskiy, V.S.6790
SOV/20-130-1-2/69TITLE: Extremum Evaluations of the Derivative of a Trigonometric Polynomial on an Interval Smaller Than the Period

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 130, Nr 1, pp 13-16 (USSR)

ABSTRACT: Let

$$t_n(\theta) = \cos 2n \arccos \frac{\sin \theta/2}{\sin \omega/2}, \quad u_n(\theta) = \sin 2n \arccos \frac{\sin \theta/2}{\sin \omega/2}.$$

The author proves the following theorem:

Theorem: If the trigonometric polynomial of n-th order $s_n(\theta)$ satisfies the inequality

$$(1) |s_n(\theta)| \leq 1, \quad -\omega \leq \theta < \omega, \quad 0 < \omega < \pi,$$

then

$$(2) |s'_n(\theta)| \leq |t'_n(\theta) + iu'_n(\theta)| = n \cos \frac{\theta}{2} \left[\sin^2 \frac{\omega}{2} - \sin^2 \frac{\theta}{2} \right]^{-1/2}$$

$-\omega < \theta < \omega$

and for $n > \frac{1}{2} \left[3 \operatorname{tg}^2 \frac{\omega}{2} + 1 \right]^{1/2}$ it holds

$$(3) |s'_n(\theta)| \leq t'_n(\omega) = 2n^2 \operatorname{ctg} \frac{\omega}{2}, \quad -\omega \leq \theta \leq \omega.$$

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In (2) the sign of equality is reached only for polynomials $s_n(\theta) = \gamma t_n(\theta)$, $|\gamma| = 1$, in the $2n$ points θ which are zeros of $t_n(\theta)$ on $[-\omega, \omega]$; in (3) the sign of equality is reached for the same polynomials, but only in the points $\theta = \pm\omega$. The author mentions S.N.Bernshteyn, A.A.Markov, I.I.Privalov, N.I.Akhiyezer, and B.Ya.Levin. There are 7 references, 5 of which are Soviet, 1 American, and 1 French.

ASSOCIATION: Matematicheskiy institut imeni V.A.Steklova Akademii nauk SSSR
(Mathematical Institute imeni V.A.Steklov AS USSR)

PRESENTED: August 29, 1959, by S.N.Bernshteyn, Academician

SUBMITTED: August 28, 1959

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Card 2/2

16(1) 11.4200

AUTHOR: Videnskiy, V.S.67929
SOV/20-130-1-2/69TITLE: Extremum Evaluations of the Derivative of a Trigonometric
Polynomial on an Interval Smaller Than the Period

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 130, Nr 1, pp 13-16 (USSR)

ABSTRACT: Let

$$t_n(\theta) = \cos 2n \arccos \frac{\sin \theta/2}{\sin \omega/2}, \quad u_n(\theta) = \sin 2n \arccos \frac{\sin \theta/2}{\sin \omega/2}.$$

The author proves the following theorem:

Theorem: If the trigonometric polynomial of n-th order $s_n(\theta)$ satisfies the inequation(1) $|s_n(\theta)| \leq 1, -\omega \leq \theta < \omega, 0 < \omega < \pi,$
then

$$(2) |s'_n(\theta)| \leq |t'_n(\theta) + iu'_n(\theta)| = n \cos \frac{\theta}{2} \left[\sin^2 \frac{\omega}{2} - \sin^2 \frac{\theta}{2} \right]^{-1/2}$$

$-\omega < \theta < \omega$

and for $n > \frac{1}{2} \left[3 \operatorname{tg}^2 \frac{\omega}{2} + 1 \right]^{1/2}$ it holds

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X

Extremum Evaluations of the Derivative of a
Trigonometric Polynomial on an Interval Smaller
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In (2) the sign of equality is reached only for polynomials
 $s_n(\theta) = \gamma t_n(\theta)$, $|\gamma| = 1$, in the $2n$ points θ which are zeros
of $t_n(\theta)$ on $[-\omega, \omega]$; in (3) the sign of equality is reached
for the same polynomials, but only in the points $\theta' = \pm\omega$.
The author mentions S.N.Bernshteyn, A.A.Markov, I.I.Privalov,
N.I.Akhiyezer, and B.Ya.Levin.

There are 7 references, 5 of which are Soviet, 1 American,
and 1 French.

ASSOCIATION: Matematicheskiy institut imeni V.A.Steklova Akademii nauk SSSR
(Mathematical Institute imeni V.A.Steklov AS USSR)

PRESENTED: August 29, 1959, by S.N.Bernshteyn, Academician

SUBMITTED: August 28, 1959

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Card 2/2

MARKUSHEVICH, A.I., red.; VIDENSKIY, V.S., red.; KHAVINSON, S.Ya.;
MURASHOVA, N.Ya., tekhn.red.

[Investigation in contemporary problems in the theory of
functions of complex variables; collection of articles] Issle-
dovaniia po sovremenym problemam teorii funktsii kompleksnogo
peremennogo; sbornik statei. Moskva, Gos.izd-vo fiziko-matem.
lit-ry, 1960. 544 p.
(Functions of complex variables)

(MIRA 13:3)

16(1) 11.4200

AUTHOR: Videnskiy, V.S.67329
SOV/20-130-1-2/69TITLE: Extremum Evaluations of the Derivative of a Trigonometric
Polynomial on an Interval Smaller Than the Period

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 130, Nr 1, pp 13-16 (USSR)

ABSTRACT: Let

$$t_n(\theta) = \cos 2n \arccos \frac{\sin \theta/2}{\sin \omega/2}, \quad u_n(\theta) = \sin 2n \arccos \frac{\sin \theta/2}{\sin \omega/2}.$$

The author proves the following theorem:

Theorem: If the trigonometric polynomial of n-th order $s_n(\theta)$ satisfies the inequation(1) $|s_n(\theta)| \leq 1, -\omega \leq \theta < \omega, 0 < \omega < \pi,$
then

$$(2) |s'_n(\theta)| \leq |t'_n(\theta) + iu'_n(\theta)| = n \cos \frac{\theta}{2} \left[\sin^2 \frac{\omega}{2} - \sin^2 \frac{\theta}{2} \right]^{1/2}$$

$-\omega < \theta < \omega$

and for $n > \frac{1}{2} \left[3 \operatorname{tg}^2 \frac{\omega}{2} + 1 \right]^{1/2}$ it holds

$$(3) |s'_n(\theta)| \leq t'_n(\omega) = 2n^2 \operatorname{ctg} \frac{\omega}{2}, -\omega \leq \theta \leq \omega.$$

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Extremum Evaluations of the Derivative of a
Trigonometric Polynomial on an Interval Smaller
Than the Period

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SOV/20-130-1-2/69

In (2) the sign of equality is reached only for polynomials
 $s_n(\theta) = \gamma t_n(\theta)$, $|\gamma| = 1$, in the $2n$ points θ , which are zeros
of $t_n(\theta)$ on $[-\omega, \omega]$; in (3) the sign of equality is reached
for the same polynomials, but only in the points $\theta = \pm\omega$.
The author mentions S.N.Bernshteyn, A.A.Markov, I.I.Privalov,
N.I.Akhiezer, and B.Ya.Levin.
There are 7 references, 5 of which are Soviet, 1 American,
and 1 French.

ASSOCIATION: Matematicheskiy institut imeni V.A.Steklova Akademii nauk SSSR
(Mathematical Institute imeni V.A.Steklov AS USSR)

PRESENTED: August 29, 1959, by S.N.Bernshteyn, Academician

SUBMITTED: August 28, 1959

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16(1)

AUTHOR:

Videnskiy, V.S.

SOV/20-125-1-2/67

TITLE:

Generalizations of the Theorem of A.A. Markov on the Estimation
 of the Derivative of a Polynomial (Obobshcheniya teoremy A.A.
 Markova ob otsenke prizvodnyx mnogochlena)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 1, pp 15-18 (USSR)
 ABSTRACT: Theorem: If a polynomial $P_n(x)$ of degree $n \geq m$ satisfies the

$$|P_n(x)| \leq \left\{ \prod_{k=1}^m (1+a_k^2 x^2) \right\}^{1/2} = \left\{ \prod_{k=1}^m |\alpha_k x + i\sqrt{1-x^2}| \right\}^{1/2}, -1 \leq x \leq 1,$$

then

$$|P_n'(x)| \leq M_n'(1) = n\alpha_1\alpha_2 \dots \alpha_m + 2 \sum \alpha_1\alpha_2 \dots \alpha_{n-2}, -1 \leq x \leq 1,$$

where $\sum \alpha_1\alpha_2 \dots \alpha_{n-2}$ is a symmetric function of $\alpha_1, \alpha_2, \dots, \alpha_n$.
 The equality is reached only by $P_n(x) = g M_n(x)$, $|g| = 1$, in the

points $x = \pm \frac{1}{\alpha_k}$.

Here $\alpha_k = \sqrt{1+a_k^2}$ ($k=1, 2, \dots, n$; $a_{m+1} = \dots = a_n = 0$) and

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Generalizations of the Theorem of A.A.Markov
on the Estimation of the Derivative of a Polynomial

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$$M_n(x) = \operatorname{Re} \prod_{k=1}^n (\alpha_k x + i\sqrt{1-x^2}).$$

For $\alpha_1 = \alpha_2 = \dots = \alpha_n = 1$ there follows the theorem of A.A.Markov.

Theorem: For polynomials $P_n(x)$ of degree $\leq n$ from $|P_n(x)| \leq |\alpha x + \beta + i\sqrt{1-x^2}|$, $-1 \leq x \leq 1$, where α, β are real and $0 \leq |\beta| < \alpha$, there follows that $|P'_n(x)| \leq \max[|M'_n(-1)|, M'_n(+1)|]$, $-1 \leq x \leq 1$,

where $M_n(x) = \frac{\alpha+1}{2} T_n(x) + \beta T_{n-1}(x) + \frac{\alpha-1}{2} T_{n-2}(x)$; here $T_n(x) = \cos n \arccos x$. The equality is reached only for $P_n(x) = \gamma M_n(x)$, $|\gamma| = 1$, in $x = -1$ or $x = +1$.

There are 4 Soviet references.

ASSOCIATION: Matematicheskiy institut imeni V.A.Steklova Akademii nauk SSSR
(Mathematical Institute imeni V.A.Steklov, AS USSR)

PRESENTED: November 29, 1958, by S.N.Bernshteyn, Academician

SUBMITTED: November 29, 1958
Card 2/2

KOROVKIN, Pavel Petrovich; VIDENSKIY, V.S., red.; KRYUCHKOVA, V.N.,
tekhn.red.

[Linear operators and the theory of approximation] Lineinyye
operatorы i teoriia priblizhenii. Moskva, Gos.izd-vo fiziko-
matem.lit-ry, 1959. 211 p. (MIRA 12:8)
(Functional analysis) (Operators (Mathematics))
(Approximate computation)

VIDENSKIY, V.S.

Stieltjes' and Bernshteins's inequalities for legendre polynomials.
Dokl. AN SSSR 124 no.5:973-975 F '59. (MIRA 12:3)

1. Matematicheskiy institut imeni V.A. Steklova AN SSSR.
Predstavleno akademikom S.N. Bernshteynom.
(Inequalities (Mathematics))

VIDENSKIY, V.S.

Generalizations of A.A. Markov's theorems on the evaluation of
polynomial derivatives. Dokl. AN SSSR 125 no.1:15-18 Mr-Ap
'59. (MIRA 12:4)

1. Matematicheskiy institut imeni V.A. Steklova AN SSSR. Pred-
stavлено академиком S.N. Bernshteynom.
(Polynomials)

16(1)

AUTHOR:

Videnskiy, V.S.

SOV/20-126-2-6/64

TITLE: On Polynomials Deviating Least From Zero, the Coefficients of
Which Satisfy a Given Linear Relation

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 2, pp 248-250 (USSR)

ABSTRACT: Let

$$(1) \quad p_n(z) = \sum_{k=0}^n p_k z^k,$$

$$(2) \quad \sum_{k=0}^n \alpha_k p_k = 1, \quad \sum_{k=0}^n |\alpha_k| \neq 0,$$

α_k -given complex numbers. The point set $\{z_v\}_{v=1}^m$, $1 \leq m \leq 2n+1$ is called characteristic if for each of its subsets there exists a polynomial (1) so that its deviation from zero is strictly smaller than the smallest deviation on the whole set $\{z_v\}_{v=1}^m$.

Theorem: Let $\{z_v\}_{v=1}^m$ be a characteristic set. In order that the polynomial $M_n(z)$ among all polynomials of the type (1)-(2) is that which on $\{z_v\}_{v=1}^m$ deviates least from zero, it is necessary and sufficient that

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On Polynomials Deviating Least From Zero, the SOV/20-126-2-6/64
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$$(3) \quad M_n(z_v) = g e^{-i\theta_v}, \quad g > 0, \quad v = 1, 2, \dots, m,$$

and that there exists a sequence of positive numbers $\{\delta_v\}_{v=1}^m$

$$\text{for which } \sum_{v=1}^m \delta_v e^{i\theta_v} z_v^k = \alpha_k, \quad k = 0, 1, \dots, n.$$

Theorem: If a polynomial $p_n(z)$ of the type (1)-(2) on the characteristic set $\{z_v\}_{v=1}^m$ assumes the values $p_n(z_v) = \lambda_v e^{-i\theta_v}$, $\lambda_v > 0$, $v = 1, 2, \dots, m$, where $\{\theta_v\}_{v=1}^m$ is defined by (3), then there holds the inequation $\min_v \lambda_v \leq g \leq \max_v \lambda_v$.

Theorem: Among the polynomials of the type (1)-(2) for every

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$q \geq 2$ in the metric L_q , $M_n(z)$ is the polynomial deviating least
from zero on $\{z_v\}_{v=1}^m$ with the weight $\{\delta_v\}_{v=1}^m$.

There are 4 Soviet references.

ASSOCIATION: Matematicheskiy institut imeni V.A.Steklova Akademii nauk SSSR
(Mathematical Institute imeni V.A.Steklov, AS USSR)

PRESENTED: February 2, 1959, by S.N.Bernshteyn, Academician

SUBMITTED: February 1, 1959

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AUTHOR:

Videnskiy, V.S.

SOV/20-121-2-2/53

TITLE:

The Application of the Theory of Integral Functions for the Construction and Investigation of N'-Functions Being Complementary to Given N'-Functions (Primeneniye teorii tselykh funktsiy k postroyeniyu i issledovaniyu N'-funktsiy, dopolnitel'nykh k zadannym N'-funktsiyam)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 121, Nr2, pp 202-205 (USSR)

ABSTRACT: In the theory of Orlicz-spaces the author considers so-called

N'-functions $M(u) = \int_0^{|u|} p(t)dt$, where $p(t)$ is a continuous function not decreasing at the right hand side, $p(0) = 0$, $p(t) > 0$ for $t > 0$, $\lim_{t \rightarrow \infty} p(t) = \infty$.

Putting $q(s) = \sup_{p(t) \leq s} t$, then the N'-function $N(v) = \int_0^{|v|} q(s)ds$ is

called complementary to $M(u)$. Then also $M(u)$ is complementary to $N(v)$. Two N'-functions $M_1(u)$ and $M_2(u)$ are called equivalent if there exist α, β, u_0 so that $M_1(\alpha u) \leq M_2(u) \leq M_1(\beta u)$, $u \geq u_0$.

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Construction and Investigation of N' -Functions Being
Complementary to Given N' -Functions

Let $F(z) = \sum_{n=0}^{\infty} e^{-M(n)} z^n$; $F(z)$ is an entire function.

Theorem: If $N(v)$ is complementary to $M(u)$, then $\ln F(e^v)$ is equivalent to $N(v)$.

Theorem: If $F(z)$ is an entire function of finite order, then

there exists $\lim_{v \rightarrow \infty} \frac{\ln F(e^v)}{N(v)} = \varsigma$.

Theorem: In order that $\lim_{v \rightarrow \infty} v^{-1} \ln N(v) = \varsigma$, $0 \leq \varsigma \leq \infty$, it is necessary and sufficient that $\lim_{n \rightarrow \infty} \frac{M(n)}{n \ln n} = \frac{1}{\varsigma}$, where n is a natural number. In order that $\lim_{v \rightarrow \infty} e^{-\varsigma v} N(v) = \delta$ ($0 < \varsigma < \infty, 0 < \delta < \infty$) it is necessary and sufficient that $\lim_{n \rightarrow \infty} n^{1/\varsigma} e^{-M(n)} \cdot \frac{1}{n} = (\delta e \varsigma)^{1/\varsigma}$

Theorem: In order that $\lim_{v \rightarrow \infty} e^{-\varsigma v} N(v) = \delta$ ($0 < \varsigma, \delta < \infty$) it is

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The Application of the Theory of Entire Functions for the SOV/20-121-2-2/53
Construction and Investigation of N'-Functions Being
Complementary to Given N'-Functions

it is necessary and sufficient that $\lim_{u \rightarrow \infty} u^{1/g} e^{-M(u)} \cdot \frac{1}{u} = (\sigma e g)^{1/g}$.

Theorem: The integrals $\int_1^{\infty} e^{-\sigma v} M(v) dv$ and $\int_1^{\infty} e^{-\sigma M(u)} \frac{1}{u} du$

($0 < g < \infty$) converge and diverge at the same time.

There are 7 references, 5 of which are Soviet, 1 French, and 1 American.

ASSOCIATION: Matematicheskiy institut imeni V.A.Steklova Akademii nauk SSSR
(Mathematical Institute imeni V.A.Steklov of the Academy of Sciences of the USSR)

PRESENTED: February 28, 1958, by S.N.Bernshteyn, Academician

SUBMITTED: February 28, 1958

Card 3/3

AUTHOR: Videnskiy, V.S.

SOV/ 20-120-3-1/67

TITLE: Generalization of the Inequalities of J.A. Markov (Obobshcheniya neravenstv V.A. Markova)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 120, Nr 3, pp 447-449 (USSR)

ABSTRACT: Theorem: If the polynomial $P_n(x)$ of degree not higher than n satisfies the inequality

$$(1) \quad |P_n(x)| \leq |\alpha x + i\sqrt{1 - x^2}| \quad (\alpha > 0)$$

on $[-1, 1]$, then it is

$$(2) \quad |P_n^{(k)}(x)| \leq M_n^{(k)}(1) = \frac{\alpha+1}{2} T_n^{(k)}(1) + \frac{\alpha-1}{2} T_{n-2}^{(k)}(1), \quad k=1, 2, \dots, n,$$

where $T_n(x) = \cos nx$ are $\cos x$. The equality in (2) is attained only for polynomials $P_n(x) = \gamma M_n(x)$, $|\gamma| = 1$,

$$M_n(x) = \frac{\alpha+1}{2} T_n(x) + \frac{\alpha-1}{2} T_{n-2}(x)$$

in the points $x = \pm 1$.

Card 1/2

Generalization of the Inequalities of V.A. Markov

SOV/20-120-3-1/67

There are 9 references, 8 of which are Soviet, and 1 American.

ASSOCIATION: Matematicheskiy institut imeni V.A. Steklova Akademii nauk
SSSR (Mathematical Institute imeni V.A. Steklov of the Academy
of Sciences of the USSR)

PRESENTED: January 14, 1958, by S.N. Bernshteyn, Academician

SUBMITTED: January 14, 1958

1. Mathematics--Theory 2. Polynomials--Theory

Card 2/2

VIDENSKIY, V.S.

Generalisation of V.A. Markov's inequalities. Dokl. AN SSSR 120
no. 3;447-449 My '58. (MIR 11:?)

1. Matematicheskiy institut im. V.A. Steklova AN SSSR. Predstavлено
академиком С.Н. Бернштейном.
(Inequalities (Mathematics))
(Functions of real variables)

VIDENSKIY V.S.

AUTHOR: VIDENSKIY V.S. 20-5-2/48

TITLE: On the Mutual Situation of the Zeros of Consecutive Polynomials Approximating Zero Best (O vzaimnom raspoloshenii nuley posledovatel'nykh polinomov, naimenee uklonyayushchikhsya ot nylya)

PERIODICAL: Doklady Akad.Nauk SSSR, ., 1957, Vol.116, Nr.5, pp.723-726 (USSR)

ABSTRACT: A well known property of the Chebysev polynomials is generalized. Theorem: On $[a, b]$ let be given two functions $t_n(x)$ and $t_{n+1}(x)$ continuous together with their first derivatives. Let the following conditions be satisfied:

1. In the interval (a, b) let $t_n(x)$ have the n simple zeros $x_1 < x_2 < \dots < x_n$. Let the function $t_{n+1}(x)$ have there $n+1$ simple zeros $y_1 < y_2 < \dots < y_{n+1}$.
2. Let every linear combination $\lambda t_n(x) + \mu t_{n+1}(x)$ (λ, μ - real, $\lambda^2 + \mu^2 \neq 0$) have not more than $n+1$ zeros on $[a, b]$.
3. On $[a, b]$ let

$|t_n(x)| \leq 1, \quad |t_{n+1}(x)| \leq 1,$

where in $n+1$ different points $\xi_1 < \xi_2 < \dots < \xi_{n+1}$ and in

Card 1/2

On the Mutual Situation of the Zeros of Consecutive Polynomials 20-5-2/48
Approximating Zero Best

$n+2$ different points $\eta_1 < \eta_2 < \dots < \eta_{n+2}$ the relations

$$t_n(\xi_k) = (-1)^k \quad (k=1, \dots, n+1)$$

$$t_n(\eta_k) = (-1)^k \quad (k=1, \dots, n+2)$$

are satisfied.

Then there hold the inequations

$$a \leq \eta_1 < \xi_1 < \eta_2 < \xi_2 < \dots < \eta_{n+1} < \xi_{n+1} < \eta_{n+2} \leq b$$

$$a < y_1 < x_1 < y_2 < \dots < x_n < y_{n+1} < b.$$

Two Soviet and 1 foreign references are quoted.

PRESENTED: By S. N. Bernshteyn, Academician. April 28, 1957
ASSOCIATION: Mathematics Institute im. V. A. Steklov, Acad. Sc. USSR (Matematicheskiy
institut im. V. A. Steklova AN SSSR)
SUBMITTED: April 27, 1957
AVAILABLE: Library of Congress
Card 2/2

PAVKO, D.; OCEPEK, Drago, dr. inz., docent; GRAFENAUER, S.;
SICHERL, B.; KERSNIC ML., V.; PAULIN, A.; GORUP, M.;
CAZAFURA, K.; VIDERICAR, F.; AHLIN, F.; KAVCIC, J.;
KERSNIC, Viktor, prof. dr. inz.; GOGALA, A.; RAMOVS, A.;
SKUBIC, T.

New books. Rud met zbor no. 2:189-216 '64.

1. Chief Editor, "Rudarsko-metalurški zbornik" (for Kersnic,
Viktor).

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859710016-3

VIDERGAUZ, N.S.; GOL'BUKHT, K.A. [deceased]; Principal author(s): FANAL'YEV,
M.I.; LANTSOVA, L.T.; GORSHUNOV, O.L.

Rapid chromatographic analysis of hydrocarbon gases. Neftkhimiia 2
no. 6: 825-830 N-D '62. (NIKA 17:10)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spiritov i orga-
nicheskikh produktov, Novokuybyshevskiy filial.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859710016-3"

VIDERGAUZ, V. S.

TITLE: Seminar on refractory metals, compounds, and alloys (Kiev, April 1963).
SOURCE: Atomnaya energiya, v. 15, no. 3, 1963, 266-267.

ACCESSION NR: AP3008085

germanides and their properties.

T. I. Zhuravlev, A. I. Avgustinnik, V. S. Vidergauz. Precipitation of refractory compounds by the electrophoresis method.

Ye. A. Shtrum. Application of transfer reactions for growing single crystals of refractory compounds.

K. S. Pridantsev, N. S. Solov'yev, Technology of production and the use of nonmagnetic zirconium-base alloys.

T. V. Krasnopevtseva, P. M. Paretskaya. Chromium-base precision alloys.

M. V. Vink. Application of zirconium boride and molybdenum silicide antiemission coatings.

O. P. Kolchin, I. K. Berlin. Synthesis and use of niobium carbide.

Card 5/11

VIDERGAUZ, V. S.

TITLE: Seminar on refractory metals, compounds, and alloys (Kiev, April 1963).
SOURCE: Atomnaya energiya, v. 15, no. 3, 1963, 266-267.

ACCESSION NR: AP3008085

S. S. Ordan'yan, A. I. Avgustinnik, V. S. Vidergauz. The ZrC-Mo phase diagram at temperatures above 2500C.

L. B. Dubrovskaya, G. P. Shveykin. Phase diagram of the Ta-C system at temperatures above 2500C.

Yu. N. Vil'k, R. G. Avarbe, and others. The NbC-W interaction at temperatures above 2500C.

L. M. Katanov. Investigation of the Cr₂C₃-Fe, Cr₇C-Fe, and Cr₂C-Ti systems at temperatures below 2500C.

Yu. B. Kuz'ma, Ye. I. Gladyshevskiy, and Ye. Ye. Cherkashin. Physicochemical investigation of the Nb-Co-Si system.

N. N. Kolomy*tsev, N. V. Moskaleva. Phase composition of Mo-Ni-B alloys.

Ye. I. Gladyshevskiy and others. Interaction between group 4a and

Card 6/11

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859710016-3

VIDERLI, M.M.; KAZIRZAYEV, G.I.

Results of the use of fluorescence microscopy in oncological practice. Azerb. med. zhur. 42 no.6:64-68 Je '65. (MIRA 18:9)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859710016-3"

GULIYEVA, S.A., dotsent; ABASKULIYEVA, L.I., kand. med. nauk;
VIDERLI, M.M., kand. med. nauk; ABDULLAYEV, V.M., kand. med.
nauk

Changes in gas exchange and morphological shifts in the
internal organs of irradiated rats. Azerb. med. zhur. no.7:
18-23 Jl '63. (MIRA 17:1)

1. Iz kafedry patofoziologii Azerbaydzhanskogo instituta
usovershenstvovaniya vrachey i Nauchno-issledovatel'skogo
instituta rentgenologii i radiologii Ministerstva zdravo-
okhraneniya Azerbaydzhanskoy SSR.

VIDERLI, M.M.

Roentgenologic diagnosis of baritosis; experimental investigations.
Vest. rent.i rad. no.2:22-25 Mr-Ap '54. (MLRA 7:6)

1. Iz rentgenodiagnosticheskogo otdeleniya (zav. starshiy-nauchnyy sotrudnik A.A.Shtuss) Azerbaydzhanskogo nauchno-issledovatel'skogo instituta rentgenologii i radiologii (dir. R.K.Safaraliyev)
(PNEUMOCONIOSES, experimental,
*baritosis, x-ray diag.)
(BARIUM, injurious effects,
*exper. baritosis, x-ray diag.)

L 11022-66

ACC NR: AP6004968

SOURCE CODE: CZ/0083/65/000/002/0113/0118

AUTHOR: Strnad, M.; Widermannova, L.--Widermannova, L.

ORG: Psychiatric Hospital, Sternberk (Psychiatricka lecebna)

TITLE: Contribution to the psychiatric problem of the pathological conviction
about the incontinence of intestinal gases

SOURCE: Ceskoslovenska psychiatrie, no. 2, 1965, 113-118

TOPIC TAGS: psychopathology, intestinal disease

ABSTRACT:

Theoretical synopsis of psychopathological evaluation of the syndrome of morbid conviction about incontinence of intestinal gases is presented. Two cases are described; one fits into the frame of the decompensation of a psychopathic personality, and the other has the character of a hallucinatory paranoid psychosis. The fatal importance of the syndrome for the life of the patients is evaluated, and early diagnostic symptoms analyzed. JPRS

SUB CODE: 06, 05 / SUEM DATE: none

HU)

Card 1/1

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859710016-3

BRUK, A.D., inzh.; VIDERSHAYN, A.B., inzh.

Experience in the redesigning of exhaust fans. Prom. energ.
19 no.1:13-14 Ja '64. (MIRA 17:2)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859710016-3"

ROZENFEL'D, Ye.L.; VIDERSHAYN, G.Ya.

Utilization of L-rhamnose in animal organs. Vop. med. khim. 9
no.5:531-533 S-0 '63. (MIRA 17:1)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR,
Moskva.

ROZENFEL'D, YeL.; VIDERSHAYN, G.Ya.

L-rhamnosidase of animal tissues. Dokl. AN SSSR 156 no. 5:
1215-1216 Je '64. (MIRA 17:6)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR.
Predstavleno akademikom A.N.Belozerskim.

VIDERSHAYN, G.Ya.; ROZENFEL'D, Ye.L.

Synthesis of α -phenyl-L-rhamnopyranoside and its cleavage
in animal tissues. Biokhimia 29 no.4:75-740 Jl-Ag '64.
(MIRA 18:6)

1. Laboratoriya klinicheskoy khimii i biokhimii uglevodnogo
obmena Instituta biologicheskoy i meditsinskoy khimii AMN
SSSR, Moskva.

YEYDUS, L.Kh.; ALYMOVA, M.M.; VIDEHNSKIY, V.G.

Density spectrum of atmospheric showers of cosmic particles. Doklady
Akad. Nauk S.S.R. 75, 669-72 '50.
(MLRA 3:10)
(CA 47 no.19:9810 '53)

VIDENSKIY, V.S.; BERNSHTEYN, S.N., akademik.

Weighted approximation on a real axis. Dokl.AN SSSR 92 no.2:217-220 S '53.
(MIRA 6:9)

1. Akademiya nauk SSSR (for Bernshteyn).

(Aggregates)

VIBEMSKY, V. S.

Functions

Result of S. N. Bernshteyn's proposal on
integral functions of the zero type. Dokl.
AN SSSR 84 no. 3. 1952
RCD. 11 March 1952

SO: Monthly List of Russian Accessions, Library of Congress, _____ 1953, Uncl.

VIDENOVICH, V. S.:

"Concerning the Inequalities of the Relative Derivatives of a Polynomial." Thesis for degree of Cand. Physico-Mathematical Sci. Sub 1 Nov 50, Sci Res Inst of Mathematics, Moscow Order of Lenin State U imeni M. V. Lomonosov.

SUMMARY 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernaya Moskva, Jan-Dec 1950

VIDENSKIY, V. S.

Cand. Physicomath Sic.

Dissertation: "Concerning the Inequalities of the Relatively Derivatives of a Polynomial."

1/11/50

Sci. Res. Inst of Mathematics, Moscow Order of Lenin State U. imeni.
M. V. Lomonosov.

SO Vecheryaya Moskva
Sum 71

VIDENSKIY, V. S.

Mathematical Review:
June 1954
Analysis

10-5-54
LV

4
0
0
0
(2)
Videnskiy, V. S. On weighted approximation on the real axis. Doklady Akad. Nauk SSSR (N.S.) 92, 217-220 (1953). (Russian)

The author considers the generalization of S. Bernstein's problem about weighted polynomial approximation on the real axis in which the polynomials contain only powers x^{k_n} with a given sequence $\{k_n\}$ of integers. He obtains a generalization of a theorem of Mandelbrojt [Ann. Sci. Ecole Norm. Sup. (3) 65, 101-138 (1948); these Rev. 10, 436], by means of approximating the weighting function by entire functions. He was, however, apparently unaware that similar generalizations had been given by Mandelbrojt [Séries adhérentes, régularisation des suites, applications, Gauthier-Villars, Paris, 1952; these Rev. 14, 542]. R. P. Boas, Jr.

VIDENSKIY, V. S.

USSR/Mathematics - Approximations

11 Sep 53

"Weighted Approximation on the Real Axis, V. S.
Videnskiy

DAN SSSR, Vol 92, No 2, pp 217-220

Gives the following definition: Let (k_n) ($k_0=0$) be an infinite increasing sequence of integers; then the function $\Phi(x) > 0$ (on the interval $-\infty, \infty$) is said to be weighted relative to sequence (x^{k_n}) (for $\Phi(x)$ in $W(k_n)$) if for every function continuous on $-\infty, \infty$ and satisfying $\lim f(x)/\Phi(x)=0$ ($x \rightarrow \infty$) and for any positive epsilon one can construct a

269T75

polynomial $P(x) = c_0 + c_1 x^{k_1} + \dots + c_n x^{k_n}$ such that $|f(x) - P(x)| < \epsilon \Phi(x)$ in $-\infty, \infty$. Cites related work of L. Carleson (Proc Am Math Soc. 2, No 6, (1951)). Presented by S. N. Bernshteyn 26 Jun 53.

V.I. n. Mirko, i.m. (Novi Sad, Mirovacka 21)

State and prospects of canning industry in Vojvodina, Tehnika
Jug 18 no.111: Uspis:renan i.m. 17 no.11:2122-2124 N '63.

1. Direktor biroa za unapredenje proizvodnje Poslovnega udrugovanja
"Produktive", Novi Sad.

VIDETSKIY, A.

Join the leaders; public inspection of the technical operation of
river vessels. Blok.agit.vod.transp. no.15:11-17 Ag '56.(MLRA 9:8)

1. Nachal'nik Glavflota Ministerstva rechnogo flota RSFSR.
(Inland water transportation)

VIDGERGAUZ, R.N.

Phagocytary leukocyte index in pneumonia in children. Pediatris,
Moskva No.1:51 Jan-Feb 51.
(CLML 20:6)

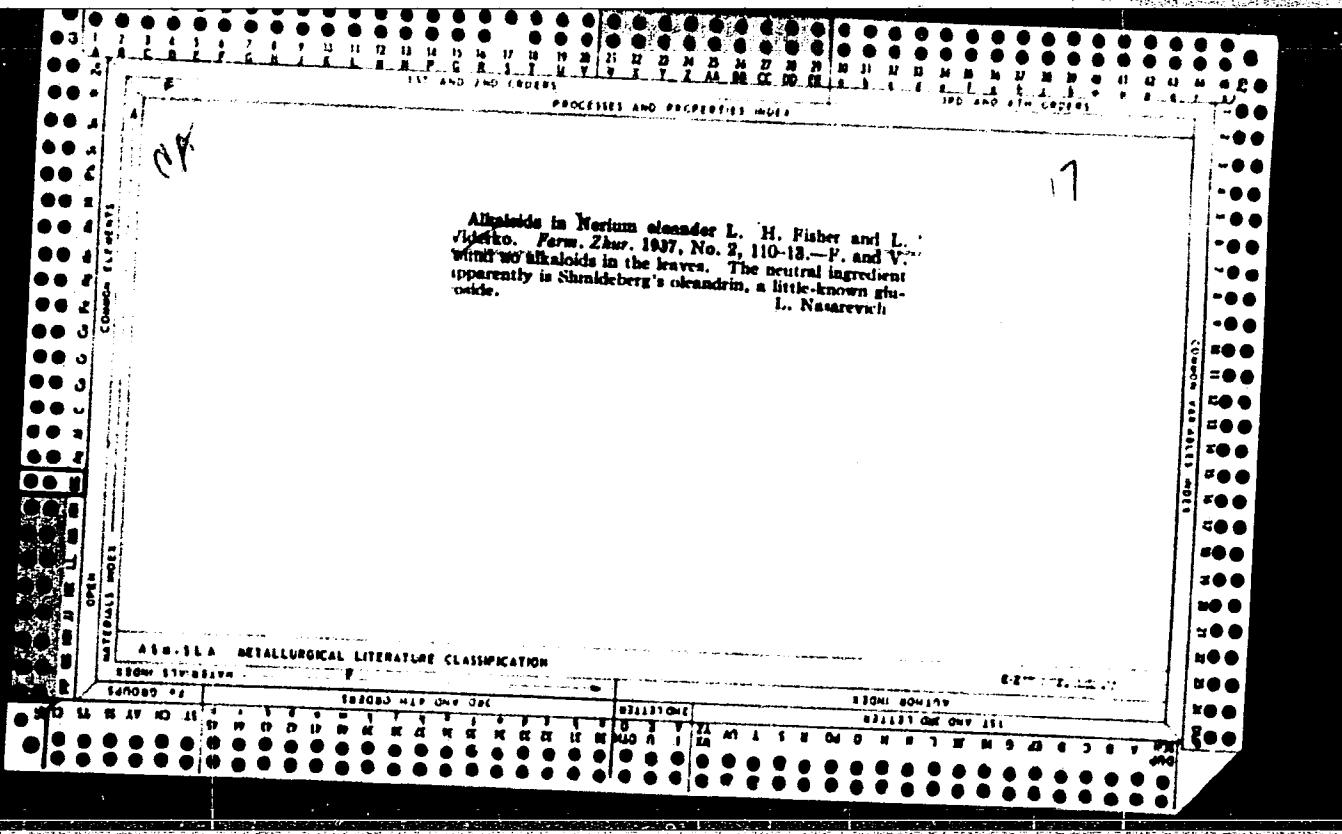
1. Of the Propedeutic Department for Children's Diseases, Sverd-
lovsk Medical Institute.

VIDERMAN, V.L.

Ponomarev, S.D.
Viderman, V.L.
Likharev, K.K.
Malinin, N.N.
Makushin, V.M.
Feodos'yev, V.I.

"Elements of Modern Methods
of Calculating Strength in
Machine Building"

Moscow Higher Technical School
imeni Bauman



Alkaloids in *Nerium oleander* L. H. Fisher and L. V. Jileiko. *Farm. Zhur.* 1937, No. 2, 110-13.—P. and V. found no alkaloids in the leaves. The neutral ingredient apparently is Shmidberg's oleandrin, a little-known gluconide. L. Nasarevich

USSR/Medicine - Roentgenology

VIDERLI, M. M.

Card 1/1

FD 211

Author : Viderli, M. M.
Title : X-ray diagnosis of baritosis (Experimental Investigation)
Periodical : Vest. Rent. i Rad. 22-25, Mar/Apr 1954
Abstract : In experimental baritosis produced on an animal, the X-ray is similar to that of silicosis. The atomic weight of the dust particles in the lungs must be taken into account in the diagnosis. Four photographs (two X-rays, one histological slide, and one plain photograph).
Institution : X-Ray Diagnosis Department (Chief - Senior Scientific Associate A. A. Shtuss) Azerbaydzhan Scientific-Research Institute of Roentgenology and Radiology, (Director - R. K. Safaraliyev)

VIDERMAN, A.I., inzh.

Making joint flanges for precast reinforced shell tubings.
Transp.stroi. 9 no.5:27-30 My '59. (MIRA 12:12)
(Flanges) (Bridges--Foundations and piers)

KOYETSKIY, Z. [Kojecky, Z.] ; VIDERMANN, B. [Wiedermann, B.]

Metabolic and hematologic changes following radical surgical operations
on the stomach. Vop.pit. 18 no.5:20-24 S-O '59. (MIRA 13:1)

1. Iz propedevticheskoy terapevticheskoy kliniki (zav. - dotsent
A. Koyetskiy) i kliniki terapevticheskoy (zav. - prof. P.Iukl')
Universiteta imeni Palatskogo, Olomouts, Chekhoslovatskaya Narodnaya
Respublika.

(GASTRECTOMY)

Vidershayn A.D.

VIDERSHAYN, A.D., inzh.; SENDETSKIY, A.A., inzh.

Experience in using step-wise evaporation with external cyclones.
Izv. vys. ucheb. zav.; energ. 4 no.3:112-114 Mr '61. (MIRA 14:3)

1. Voroshilovskiy gorno-metallurgicheskiy institut. Predstavlena
kafedroy teplotekhniki i gidravliki.
(Boilers) (Furnaces)

VIDERSHAYN, M.I.

Remote control of the ZhR-4S radio station. Avtom. telem. i
sviaz' 3 no.5:37-38 My '59. (MIRA 12:8)

1. Starshiy inzhener laboratorii signalizatsii i svyazi Moskovsko-
Ryazanskoy dorogi.
(Remote control) (Railroads--Electronic equipment)

VIDERSHAYN, M.N.

Use of a radio relay system. Avtom., telem.i sviaz' 3
no.7:28 J1 '59. (MIRA 12:12)

1. Starshiy inzhener laboratorii signalizatsii i svyazi
Moskovsko-Ryazanskoy dorogi.
(Railroads--Communication systems)

VIDERSPAK, J.

"Methodology of Pilot Training in Aero Clubs", p. 340, (KRIDLA VLASTI,
Vol. 4, No. 15, July 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (ETAL), LC, Vol. 4,
No. 1, Jan. 1955, Uncl.

VIDERT, L.K., CHERANOV, V.M.

Attachment to the R-5 machine. Zav.lab 26 no.7:881-882
'60.
(MIRA 13:?)

1. Leningradskiy gosudarstvennyy universitet im. A.A.
Zhdanova.
(Testing machines)

VIDERVOL, N.

Yugoslavia (430)

Social Sciences - Serials

For the new man; a school mistress as a socialist educator. p. 230. Progressive American-Slovenian women in the fatherland. p. 232. NASA ZENA. (Antifasisticka fronta zena Slovenije) Ljubljana. (Illustrated

East European Accessions List. Library of Congress, Vol. 1, no. 13, November 1952.

UNCLASSIFIED.

"Card 1 of 2"

VIDERVOL, N.

Yugoslavia (430)

monthly for women issued by the Anti-Fascist Women's Front of Slovenia, with Young pioneers, a supplement for children). Vol. 10, no. 8-9, 1952.

East European Accessions List, Library of Congress, Vol. 1, no 13, November 1952.
UNCLASSIFIED.

* Card 2 of 2*

VIDERVOL, N.

Yugoslavia (430)

Social Sciences - Serials

Intellectual women of the past and present,
p. 234. NASA ZENA. (Antifasisticna fronta
zena Slovenije) Ljubljana. (Illustrated
monthly for women issued by the Anti-Fascist
Women's Front of Slovenia, with Young pioneers,

East European Accessions List. Library of
Congress, Vol. 1, no. 13, November 1952.
UNCLASSIFIED. "Card 1 of 2"

VIDERVOL, N.

Yugoslavia (430)

a supplement for children). Vol. 10,
no. 8-9, 1952.

East European Accessions List. Library of
Congress, Vol. 1, no. 13, November 1952.
UNCLASSIFIED. "Card 2 of 2"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859710016-3

VIDETIC, Lubomir, inz.

"Production preparation" by P. Prial. Pt.2. Reviewed by
Lubomir Videtic. Stroj vyr 12 no.10;781 O '64.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859710016-3"

VIDETSKIY, A.F., inzhener.

Utilizing wheel tugboats in reservoirs. Rech.transp. 14 no.12:
19-22 D '55. (MLRA 9:3)
(Tugboats)

VIDETSKIY, A. F. Cand Tech Sci -- (diss) " Study of forces working on the
paddle
~~of paddle-wheel~~ in calm and turbulent water." Len, 1957.

13 pp 21 cm. (Min of River Fleet RSFSR. Len Inst of Engineers of Water Transport).
(KL, 24-57, 118)

BELYAKOV, F.Ye.; BABIN, B.N.; BAL', V.; BOROVKOV, P.N.; VOYEVODIN, I.N.;
GUREVICH, G.M.; GORBUNOVA, P.I.; KONNOV, A.S.; LALANTAROVA, M.V.;
KASHIRSKIY, A.Ya.; KAZANCHYEV, Ye.N.; LEKSUTKIN, A.P.; LETI-
CHEVSKIY, M.A.; LOPATIN, S.Z.; MIRSKIY, V.N.; PODSEVALOV, V.N.;
SUBBOTINA, V.P.; TANASIYCHUK, N.P.; FEDOTOV, S.D.; FISENKO, K.N.;
EL'KIND, I.G.; BOVIN, S.S.; VASIL'YEV, L.T.; DRINKOV, V.D.; DALE-
CHIN, N.I.; DADAGOV, I.A.; YERMOSHINA, V.I.; ZHUKOV, I.V.; ZIMIN,
D.A.; IVANNIKOV, A.Ya.; KOVALEV, M.K.; LUGAKOVSKIY, N.L.; NALEVSKIY,
A.F.; SEREZHNIKOV, V.K.; SEMIGLASOV, M.D.; SOKOLOV, A.V.; STEPANOV,
V.I.; SAKHARIN, G.S.; SAVENKO, P.A.; SOLODOV, V.P.; UMEROV, Sh.Kh.;
CHIKINDAS, G.S.; SHCHERBUKHINA, S.N.; DYNKIN, G.Z.; LYSOV, V.S.;
OSHEROVICH, A.N.; ROKITSINSKIY, E.V.; BRASLAVSKIY, M.S.; RUDENKO,
I.A.; ZHUKOBORSKIY, M.S.; ZHDANOV, I.Ye.; SUSLIN, V.A.; BRUS, A.Ye.;
VOLYNSKIY, S.A.; KLYUYEV, V.A.; ISTRATOV, A.G.; TIKHOMIROV, I.F.;
BUTYRIN, Ya.W.; VOLYNSKIY, S.A.; MINEYEV, M.F.; MAL'TSEV, V.I.;
VIDETSKIY, A.F., kand.tekhn.nauk, glavnnyy red.; DEMIDOV, A.N., red.;
KRAVETS, A.L., red.; KLIMOVA, Z.I., tekhn.red.

[Industrial Astrakhan] Promyshlennaia Astrakhan'. Astrakhan',
Izd-vo gazety "Volga," 1959. 318 p. (MIRA 12:11)

1. Astrakhan (Province) Ekonomicheskiy administrativnyy rayon.
(Astrakhan Province--Economic conditions)

VIDETSKIY, A.F., kand.tekhn.nauk

Practical method of determining loads on paddle wheels for
vessels operating in a wave disturbance. Trudy TSNIIRF no.39:
137-150 '59. (MIRA 13:4)
(Paddle wheels) (Ship propulsion)

VIDETSKIY, A.

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L 32643-66 EWT(m)/EWP(j)/T WW/JW/RM

ACC NR: AP6015613 (A)

SOURCE CODE: UR/0020/66/168/002/0344/0347

AUTHORS: Makarov, S. P.; Englin, M. A.; Videyko, A. F.; Tobolin, V. A.; Dubov,
S. S.53
53
B

ORG: none

TITLE: Reactions of hexafluorodimethylnitroxide¹

SOURCE: AN SSSR. Doklady, v. 168, no. 2, 1966, 344-347

TOPIC TAGS: chemical reaction, halogen oxygen nitrogen compound, fluorinated organic compound

ABSTRACT: Reactions of hexafluorodimethylnitroxide (I), which was described in an earlier paper by S. P. Makarov, A. Ya. Yakubovitch i dr. (Zhurn. Vsesoyuzn. khim. obshch. im. D. I. Mendeleyeva, no. 1, 106, 1965; DAN, 160, 1319, 1965), with ethylene, tetrafluoroethylene, acetylene, benzene, tetrafluorohydrazine, phosphorus trichloride and trifluoride, lead and tin are described. Photolysis and pyrolysis of I were also investigated. The structure of the reaction products was analyzed by means of elementary analysis, mass spectroscopy, determination of molecular weight, and by formation of derivatives. It was established that in some reactions I acts as a typical free radical¹, while in others as an oxidizing agent releasing its oxygen. Photolysis leads to dimerization of I, while pyrolysis at 350°C results in

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decomposition (I is stable at temperatures up to 200C). The authors express their
gratitude to F. N. Chelobov and A. M. Khokhlov for mass spectrophotometric study of
some compounds. This paper was presented by Academician I. L. Knunyants on 29
September 1965. Orig. art. has: 1 table and 1/ equations.

SUB CODE: 07/ SUBM DATE: 24Sep65/ ORIG REF: 003/ OTH REF: 001

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CIA-RDP86-00513R001859710016-3

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